## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

		D-+i **	Δ.	Issue No.					
LM Start	0.00	Rating **	Α	issue ivo.		18			
LM End	0.00	Issue Type +	Ма	Location *		N/A			
Category Earthen Levee			GPS La	atitud	le/Longitude				
Calegory				Start		End			
Item	Flood Pre	paredness &	Training		0		0		
item					٥		0		
DWR ID DWR_RD2092_01_f _ 2012_18									
		Comn	nent Cod	le					
		Inspecto	or Comm	ent					
LMA preparedness and training is adequate for flood response.									

No Photos

Rating \*\* Issue No. 0.00 Α LM Start 24 0.00 Issue Type + Ма Location \* N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Operations & Maintenance Item Manuals DWR\_RD2092\_01\_s \_ 2012\_24 DWR ID Comment Code Inspector Comment LMA has the O&M manual for their district.

No Photos

Rating \*\* Issue No. 26 LM Start 0.00 Ма Location \* 0.00 Issue Type + N/A LM End GPS Latitude/Longitude Earthen Levee Category End **Emergency Supplies &** Item Equipment DWR ID DWR\_RD2092\_01\_s \_ 2012\_26 Comment Code Inspector Comment LMA has adequate flood fighting supplies.

No Photos

\* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\* Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

C : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

\*\* Rating

A : Asceptable M : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.08	Rating **	U	Issue No.		32		
LM End	0.20	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Vegetatio	n		37.6025	10°	37.601898°		
пеш				-121.1595	38°	-121.161582°		
DWR ID DWR_RD2092_01_f _ 2019_32								
		Comn	nent Cod	de				
V1 : Contre	•	grass and wee	ds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				



View of vegetation on landside slope looking upstream. (Fall 2019)

LM Start	0.08	Rating **	U	Issue No.		34	
LM End	2.89	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory						End	
Item	Vegetatio	n		37.6025	01°	37.574610°	
item				-121.1595	88 °	-121.154898 °	
DWR ID DWR_RD2092_01_f _ 2019_34							
Comment Code							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of vegetation along waterside slope. (Fall 2019)

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.		973		
LM End	0.18	Issue Type +	Ma	Location *				
Category	ental	GPS Latitude/Longitude						
Calegory			Start		End			
Item	DRAFT D	WR UCIP LM	A	37.6020	31 °	37.602031 °		
пеш	Responsil	oility		-121.1612	49°	-121.161249°		
DWR ID	20561							
	Comment Code							

#### Inspector Comment

DS\_ID:20561 FS\_ID:53799 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie -DWR UCIP)

FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)].

FS Date: 3/12/2019 12:05:00 PM



Overview of levee with approximate pipe alignment (pipe angled through levee).

+ Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Location

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

#### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.		973 (cont)		
LM End	0.18	Issue Type +	Ma	Location *				
Supplemental				GPS Latitude/Longitude				
Category						End		
Item	DRAFT D	WR UCIP LM	A	37.6020	31 °	37.602031 °		
пеш	Responsi	bility		-121.1612	49°	-121.161249°		
DWR ID	WR ID 20561							
	Comment Code							

#### Inspector Comment

DS\_ID:20561 FS\_ID:53799 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie -DWR UCIP)

FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)].

FS Date: 3/12/2019 12:05:00 PM

# Photo 2 of 3 : UCIP\_FA\_2019\_53799\_79054.jpg



LS view: overview of LS with sink hole visible along pipe alignment.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.		973 (cont)
LM End	0.18	Issue Type +	Ма	Location *		
Category				GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DRAFT D	WR UCIP LM	Α	37.60203	1 °	37.602031°
пеш	Responsibility		-121.16124	9°	-121.161249°	
DWR ID	20561					·

## Inspector Comment

Comment Code

DS ID:20561 FS ID:53799 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie -DWR UCIP)

FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)].

FS Date: 3/12/2019 12:05:00 PM



LS view: pipe crosses levee at angle, approximate alignment on LS.

N: Not Inspected/Rated C : Corrected

A/W: Acceptable but Monitor & Maintain

+ Issue Type Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.21	Rating **	М	Issue No.	36		
LM End	0.56	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetation			37.6018	51 °	37.599927°	
пеш				-121.1616	89°	-121.166980 °	
DWR ID	DWR_RD2	092_01_f _ 201	9_36				
		Comn	nent Cod	le			
V1 : Control annual grass and weeds on the levee slopes and easements.							
		Inspecto	or Comm	ent			

Photo 1 of 1: FA\_2019\_RD2092\_116\_36\_20190924\_00065.jpg



View of landside slope looking upstream. (Fall 2019)

LM Start	0.44	Rating **	M	Issue No.		31
LM End	0.44	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		37.6011	49°	37.601149°
пеш				-121.1657	72°	-121.165772 °
DWR ID	DWR_RD2	092_01_s _ 201	8_31			

Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Remove small tree on waterward shoulder before tree is establish.



Looking upstream at small tree on waterward should next to pole. (Spring 2018)

	_						
LM Start	0.56	Rating **	U	Issue No.		41	
LM End	2.98	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetation			37.5999	37°	37.574305°	
пеш				-121.166987 °		-121.153445 °	
DWR ID	DWR_RD2	092_01_f _ 201	9_41				
Comment Code							
V1 : Contr	•	grass and wee	ds on th	e levee slo	pes	and	

easements.

Inspector Comment



View of vegetation along landside slope looking upstream. (Fall 2019)

Location + Issue Type Ma : Maintenance Deficiancy N/A: Not Applicable LS: Land Side : Acceptable : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.59	Rating **	М	Issue No.		40	
LM End	0.59	Issue Type +	Ma	Location *	LS		
Category	evee		GPS Latitude/Longitude				
Calegory				Start End			
Item	Slope Sta	bility		37.5994	06 °	37.599406	0
пеш				-121.1670	83°	-121.167083	0
DWR ID DWR_RD2092_01_f _ 2018_40							
		Comn	nent Cod	de			

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Vehicle tracks on the landside slope should be repaired.



Vehicle tracks on landside slope approximately 6" deep perpendicular to the slope. (Fall 2018)

LM Start	0.60	Rating **	С	Issue No.		38
LM End	0.60	Issue Type +	Ma	Location *	WS	
Category Earthen Levee				GPS Latitude/Longitude		
Category		Start End				End
Item	Vegetation			37.5993	72 °	37.599372°
пеш				-121.1671	23 °	-121.167123°
DWR ID DWR_RD2092_01_f _ 2018_38						
		Comn	nent Coo	de		

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Brush on waterside shoulder should be removed.

No Photos

LM Start	0.61	Rating **	М	Issue No.		21
LM End	0.61	Issue Type +	Ma	Location *	WS	
Category	evee		GPS Latitude/Longitude			
					End	
Item	Trim / Thi	n Trees		37.59920	08°	37.599208°
пеш				-121.16715	50°	-121.167150°
DWR ID DWR_RD2092_01_s _ 2018_21						
		Comn	nent Coc	de		

T2: Thin trees to allow visibility of the ground and room to flood fight.

## Inspector Comment

Remove small tree on waterward shoulder before tree is established.



Looking downstream at small tree on waterward slope. (Spring 2018)

\*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating
A: Acceptable
N: Not Inspected/Rated
N: Not Inspected/Rated
C: Corrected
C: Corrected
D: Unacceptable
U: Unacceptable
A/W: Acceptable but Monitor & Maintain
Finity C: Corrected
C: Corrected
D: Design & System Obsolescence
En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

# **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.79	Rating **	М	Issue No.		42
LM End	0.83	Issue Type +	Ma	Location *		CR
Catagony	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Crown Su	ssions /	37.5968	95°	37.596351°	
item	Rutting			-121.1684	93°	-121.168360°
DWR ID DWR_RD2092_01_f _ 2018_42						
		Comn	nent Coc	de		
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.		
		Inspecto	or Comm	nent		

No Photos

LM Start	1.25	Rating **	М	Issue No.		39
LM End	1.31	Issue Type +	Ma	Location *		CR
Category	evee	GPS La	atitud	le/Longitude		
Category				Start		End
Crown Surface / Depressions /				37.5909	36°	37.590524°
item	Rutting -121.164819				19°	-121.163947°
DWR ID DWR_RD2092_01_s _ 2017_39						
		Comn	nent Cod	de		
C3 : Add a	ppropriate	gravel or roa	d base.	Grade and	com	npact.
Inspector Comment						



Looking upstream at rutting and depression on levee crown. (Spring 2018)

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.30	Rating **	М	Issue No.		977
LM End	1.30	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item		WR UCIP LM	Α	37.59060	3°	37.590603°
пеш	Responsil	nsibility		-121.16411	1 °	-121.164111°
DWR ID	20562					·

# Inspector Comment

Comment Code

DS\_ID:20562 FS\_ID:53820 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 During UCIP visual inspection, no pipe or levee integrity issues were observed. Distribution box located on the WS is falling apart (bricks missing). This crossing is an active crossing however, no permit has been found authorizing crossing. Need to determine who maintains and operates this crossing. (O. Magana - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4-foot by 6-foot concrete distribution box on the landside (LS) toe. 5-foot by 5-foot concrete riser on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.31)].

FS Date: 3/12/2019 12:06:00 PM

LM Start	1.30	Rating **	М	Issue No.	977 (cont)
LM End	1.30	Issue Type +	Ma	Location *	



Overview of pipe alignment through levee, photo taking looking d/s toward crossing.

Photo 2 of 3: UCIP\_FA\_2019\_53820\_79078.jpg



WS view: approximate alignment on WS.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.30	Rating **	М	Issue No.		977 (cont)	
LM End	1.30	Issue Type +	Ма	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item		WR UCIP LM	Α	37.59060	3°	37.590603°	
пеш	Responsil	oility	-121.16411	1°	-121.164111°		
DWR ID	20562						

# Inspector Comment

Comment Code

DS\_ID:20562 FS\_ID:53820 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 During UCIP visual inspection, no pipe or levee integrity issues were observed. Distribution box located on the WS is falling apart (bricks missing). This crossing is an active crossing however, no permit has been found authorizing crossing. Need to determine who maintains and operates this crossing. (O. Magana - DWR UCIP)

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4-foot by 6-foot concrete distribution box on the landside (LS) toe. 5-foot by 5-foot concrete riser on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.31)].

FS Date: 3/12/2019 12:06:00 PM



Slide gate in 48-inch CMP riser on WS slope.

LM Start	1.31	Rating **	M	Issue No.		46	
LM End	1.31	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.5905	63°	37.590563°	
item				-121.164005 °		-121.164005°	
DWR ID	DWR_RD2	092_01_f _ 201	9_46				
		Comn	nent Cod	de			
V4 : Elderb	erries are	blocking visib	ility and	flood fight	сара	ability.	
	Inspector Comment						

No Photos

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

# **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.60	Rating **	М	Issue No.		48	
LM End	1.60	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees	37.5870	68°	37.587068°		
пеш				-121.1627	73°	-121.162773°	
DWR ID	DWR_RD2	092_01_f _ 201	9_48				
		Comn	nent Cod	de			
T1 : Trim trees to at least five feet above ground level.							
	Inspector Comment						

Photo 1 of 1 : FA\_2019\_RD2092\_116\_48\_20190924\_00070.jpg



View of branches hanging over waterside slope. (Fall 2019)

LM Start	1.65	Rating **	М	Issue No.		49		
LM End	1.65	Issue Type +	Ма	Location *		WS		
Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Trim / Thi	n Trees		37.5864	30°	37.586430°		
item				-121.1631	08°	-121.163108°		
DWR ID	DWR_RD2092_01_f _ 2019_49							

Comment Code

T4: Trim trees over roadway to at least 12 feet above ground level.

Inspector Comment

LM Start	1.65	Rating **	М	Issue No.	49 (cont)
LMC	1 65	Iceua Typa +	1/10	Location *	WC





View of branches hanging over levee crown. (Fall 2019)

Photo 2 of 2: FA\_2019\_RD2092\_116\_49\_20190924\_00075.jpg



Looking upstream along the levee crown. (Fall 2019)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.69	Rating **	U	Issue No.		978	
LM End	1.69	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory						End	
Item	DRAFT D	WR UCIP LM	A	37.58593	38°	37.585938°	
item	Responsi	oility		-121.16334	18 °	-121.163348°	
DWR ID	20563						
Comment Code							

## Inspector Comment

DS\_ID:20563 FS\_ID:53817 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is required, pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on WS outlet). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Maintenance issues identified at this crossing include: flap gate missing on WS, debris found inside concrete distribution box, and missing cover on riser. No permit has been identified for this crossing. Need to determine who maintains crossing; crossing appears functional. (O. Magana - DWR UCIP) FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete Ushaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. FS Date: 3/12/2019 12:07:00 PM

LM Start	1.69	Rating **	U	Issue No.	978 (cont)
LM End	1.69	Issue Type +	Ma	Location *	



Overview of levee crown looking d/s towards pipe crossing.

## Photo 2 of 3: UCIP\_FA\_2019\_53817\_79087.jpg



WS view: overview of WS.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.69	Rating **	U	Issue No.		978 (cont)
LM End	1.69	Issue Type +	Ма	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory	Category					End
Item		WR UCIP LM	Α	37.5859	38°	37.585938 °
пеш	Responsil	oility		-121.1633	48 °	-121.163348°
DWR ID	20563					·

#### Inspector Comment

Comment Code

DS\_ID:20563 FS\_ID:53817 EP\_NO: N/A Repair Type: Urgent Crossing Status: Found

FS Date: 3/12/2019 12:07:00 PM

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is required, pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on WS outlet). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Maintenance issues identified at this crossing include: flap gate missing on WS, debris found inside concrete distribution box, and missing cover on riser. No permit has been identified for this crossing. Need to determine who maintains crossing; crossing appears functional. (O. Magana - DWR UCIP) FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)].



LS view: overview of LS.

LM Start	1.92	Rating **	М	Issue No.		37	
LM End	1.98	Issue Type +	Ma	Location *	CR		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Calegory			Start		End		
Crown Surface / Depressions /				37.584273°		37.584361	0
пеш	Rutting			-121.161034°		-121.159955	0
DWR ID	DWR_RD2	092_01_s _ 201	7_37				
		Comn	nent Cod	de			
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.			
Inspector Comment							

No Photos

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.04	Rating **	С	Issue No.		30	
LM End	2.04	Issue Type +	Ma	Location *		CR	
Category Earthen Levee				GPS L	atitud	e/Longitude	
Calegory	Category					End	
Item	Crown Surface / Depressions /				272°	37.584272	٥
item	Rutting			-121.158851 °		-121.158851	٥
DWR ID	DWR_RD2	092_01_s _ 201	9_30				
		Comn	nent Coo	de			
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.			
	Inspector Comment						

No Photos

LM Start	2.07	Rating **	М	Issue No.	979	
LM End	2.07	Issue Type +	Ma	Location *		
Category				GPS Latitude/Longitude		
Calegory				Start		End
Item		WR UCIP LM	Α	37.5842	12°	37.584212°
Responsibility			-121.1583	47 °	-121.158347°	
DWR ID	20564					

# Comment Code

#### Inspector Comment

DS\_ID:20564 FS\_ID:53814 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 Concrete headwall found on LS toe. Pipe appears to have been grouted through. No other appurtenances were found during inspection. WS outlet was not found. Need to coordinate with the CVFPB to determine if additional steps are needed to comply

with Title 23. (O. Magana - DWR UCIP)
FIELD\_STRUCT\_DESC: \*ABANDONED\* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed].

FS Date: 3/12/2019 12:08:00 PM



Overview of levee crown, looking u/s from d/s, and approximate pipe alignment.

Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.07	Rating **	М	Issue No.	979 (cont)	
LM End	2.07	Issue Type +	Ма	Location *		
Supplemental				GPS Latitude/Longitude		
Calegory	Category			Start		End
Item	DRAFT D	WR UCIP LM	Α	37.5842	12 °	37.584212°
пеш	Responsibility			-121.1583	47 °	-121.158347°
DWR ID	20564					·

# Inspector Comment

Comment Code

DS\_ID:20564 FS\_ID:53814 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 Concrete headwall found on LS toe. Pipe appears to have been grouted through. No other appurtenances were found during inspection. WS outlet was not found. Need to coordinate with the CVFPB to determine if additional steps are needed to comply with Title 23. (O. Magana - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed].

FS Date: 3/12/2019 12:08:00 PM

LM Start	2.07	Rating **	М	Issue No.	979 (cont)
LM End	2.07	Issue Type +	Ma	Location *	



Overview of levee at crossing, photo taken u/s looking d/s towards pipe crossing.

#### Photo 3 of 3: UCIP\_FA\_2019\_53814\_79093.jpg



LS view: concrete riser, power pole, and groundwater pump station.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.18	Rating **	M	Issue No.		33	
LM End	2.22	Issue Type +	Ma	Location *	CR		
Category	evee	GPS La	tituc	le/Longitude			
Calegory	Category			Start		End	
Item	Crown Surface / Depressions /			37.58324	17 °	37.582851 °	
пеш	Rutting			-121.15662	21 °	-121.156119°	
DWR ID	DWR_RD2	092_01_s _ 201	9_33				
		Comn	nent Coc	le			
C2 : Repair depressions or ruts in the crown or slope.							

Inspector Comment

No Photos

LM Start	2.44	Rating **	М	Issue No.		50
LM End	2.44	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory	Category			Start		End
Item	Trim / Thi	n Trees		37.5799	45 °	37.579945°
пеш				-121.1569	95 °	-121.156995 °
DWR ID	DWR_RD2	092_01_f _ 201	9_50			

#### Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Palm tree should be removed from landside slope before it can establish.

#### Photo 1 of 1: FA\_2019\_RD2092\_116\_50\_20190924\_00071.jpg



View of plam tree in landside slope. (Fall 2019)

LM Start	2.50	Rating **	М	Issue No.		51
LM End	2.50	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start	Start	
Item	Trim / Thi	n Trees		37.5791	15°	37.579115°
пеш				-121.157002° -121.157002		
DWR ID	DWR_RD2	092_01_f _ 201	9_51			

#### Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Palm tree should be removed from landside toe before it can establish.

#### Photo 1 of 1: FA\_2019\_RD2092\_116\_51\_20190924\_00072.jpg



View of palm tree growing in landside toe. (Fall 2019)

Location

N/A: Not Applicable LS: Land Side

WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

# **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.55	Rating **	U	Issue No.		19			
LM End	2.55	Issue Type +	Ma	Location *		LS			
Category	Catagoria Earthen Levee					e/Longitude			
Category				Start		End			
Item	Vegetatio	n		37.5783	33°	37.578333°			
пеш			-121.1570	11°	-121.157011 °				
DWR ID	DWR ID DWR_RD2092_01_s _ 2018_19								
		Comn	nent Cod	de					
V7 : Trees	/ Woody \	egetation/							
Inspector Comment									
Palm trees at landward slope and toe should be removed.									

LM Start	2.55	Rating **	U	Issue No.	19 (cont)
LMCsd	2 55	Issue Type +	Ma	Location *	1.0

## Photo 1 of 2: FA\_2019\_RD2092\_116\_19\_20190926\_00076.jpg



View of palm tree growing on landside slope. (Fall 2019)

#### Photo 2 of 2: FA\_2019\_RD2092\_116\_19\_20190912\_00007.jpg



Looking at Palm tree at landward toe. (Spring 2018)

Photo 1 of 1: FA\_2019\_RD2092\_116\_44\_20190912\_00020.jpg

LM Start	2.59	Rating **	U	Issue No.		44	
LM End	2.61	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		37.5777	'89°	37.577496°	
item				-121.157090 °		-121.157123°	
DWR ID	DWR_RD2	092_01_f _ 201	8_44				
		Comn	nent Cod	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
	Inspector Comment						
There are	There are several burrows along the landside slope that need to be						

backfilled.

View of animal burrows looking upstream. (Fall 2018)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.63	Rating **	М	Issue No.		53	
LM End	2.63	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.5772	° 00	37.577200°	
пеш				-121.1571	52°	-121.157152°	
DWR ID	DWR_RD2	092_01_f _ 201	9_53				
		Comn	nent Cod	de			
V4 : Elderb	perries are	blocking visit	ility and	flood fight	сара	ability.	
	Inspector Comment						

No Photos

2.63	Rating **	U	Issue No.		17
2.76	Issue Type +	Ma	Location *		WS
Earthen L	GPS Latitude/Longitude				
	Start		End		
Animal Co	ontrol		37.5771	86°	37.575364°
			-121.1571	59°	-121.157093°
DWR ID DWR_RD2092_01_s _ 2018_17					
	2.76 Earthen L Animal Co	2.76 Issue Type + Earthen Levee Animal Control	2.76 Issue Type + Ma Earthen Levee Animal Control	2.76   Issue Type +   Ma   Location *   Earthen Levee   GPS La   Start   Animal Control   37.5771   -121.1571	2.76 Issue Type + Ma Location *  Earthen Levee GPS Latitud Start  Animal Control 37.577186 ° -121.157159 °

#### Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

#### Inspector Comment

Several large rodent holes within this reach need to be backfilled.

LM Start	2.63	Rating **	U	Issue No.	17 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS

#### Photo 1 of 4 : FA\_2019\_RD2092\_116\_17\_20190912\_00003.jpg



Looking upstream on waterward slope at several large rodent holes. (Spring 2018)

Photo 2 of 4 : FA\_2019\_RD2092\_116\_17\_20190912\_00004.jpg



Looking at typical large rodent holes on waterward slope. (Spring 2018)

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected C: Corrected C: Corrected A/W: Acceptable but Monitor & Maintain

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

# **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.63	Rating **	U	Issue No.		17 (cont)	
LM End	2.76	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.5771	86°	37.575364°	
iteiii				-121.1571	59°	-121.157093°	
DWR ID DWR_RD2092_01_s _ 2018_17							
		Comn	nent Cod	de			
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
Inspector Comment							
Several large rodent holes within this reach need to be backfilled.							

- White	NAVA ST	
		03/29/2018

Photo 3 of 4: FA\_2019\_RD2092\_116\_17\_20190912\_00005.jpg

Looking upstream at large rodent holes on waterward slope. (Spring 2018)

 LM Start
 2.63
 Rating \*\*
 U
 Issue No.
 17 (cont)

 LM End
 2.76
 Issue Type +
 Ma
 Location \*
 WS

Photo 4 of 4: FA\_2019\_RD2092\_116\_17\_20190912\_00006.jpg



Looking downstream at several rodent holes on waterward slope. (Spring 2018)

LM Start	2.74	Rating **	М	Issue No.		45	
LM End	2.74	Issue Type +	Ма	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	37.5755	14°	37.575514°	
пеш	Rutting			-121.157140°		-121.157140°	
DWR ID DWR_RD2092_01_s _ 2019_45							
		Comn	nent Coo	de			
C2 : Repair depressions or ruts in the crown or slope.							
		Inspecto	or Comm	nent			
Depression and rutting in levee crown should be repaired.							



View of rutting along levee crown. (Spring 2019)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

# **Reclamation District No. 2092 Dos Rios**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.74	Rating **	М	Issue No.		45 (cont)	
LM End	2.74	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item		rface / Depres	ssions /	37.5755	14°	37.575514°	
item	Rutting			-121.157140 °		-121.157140°	
DWR ID DWR_RD2092_01_s _ 2019_45							
		Comn	nent Coo	le			
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.			
		Inspecto	or Comm	ent			
Depression and rutting in levee crown should be repaired.							

Photo 2 of 2 : FA\_2019\_RD2092\_116\_45\_20190912\_00022.jpg

View of depression in levee crown. (Spring 2019)

LM Start	2.82	Rating **	М	Issue No.		35	
LM End	3.01	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Animal Control			37.574869°		37.574141°	
пеш				-121.156247°		-121.152762°	
DWR ID	/R ID DWR_RD2092_01_s _ 2017_35					·	
Comment Code							

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

LM Start	2.82	Rating **	М	Issue No.	35 (cont)
LM End	3.01	Issue Type +	Ma	Location *	WS

## Photo 1 of 3: FA\_2019\_RD2092\_116\_35\_20190912\_00012.jpg



Squirrels observed along waterside slope. (Spring 2019)

Photo 2 of 3: FA\_2019\_RD2092\_116\_35\_20190912\_00013.jpg



View of typical rodent holes. (Spring 2019)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.82	Rating **	М	Issue No.	35 (cont)		
LM End	3.01	Issue Type +	Ма	Location *	WS		
Cotogon Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Co	ontrol		37.574869°		37.574141 °	
item				-121.156247°		-121.152762°	
DWR ID DWR_RD2092_01_s _ 2017_35							
Comment Code							

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



View of several rodent burrows along waterside slope. (Spring 2019)

LM Start	3.47	Rating **	М	Issue No.		988
LM End	3.47	Issue Type +	Ma	Location *		
Category	Suppleme	GPS Latitude/Longitude				
Calegory				Start		End
Item		DRAFT DWR UCIP LMA			04°	37.573304°
Responsibility			-121.1447	47°	-121.144747 °	
DWR ID	20572					

#### Inspector Comment

Comment Code

DS\_ID:20572 FS\_ID:53786 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 No permit was found authorizing crossing. Unable to confirm if crossing is in use. Recommend adding cover to riser to address safety concern. No slide gate was found in CMP riser. If crossing is no longer in use, recommend proper abandonment or removal from levee. Owner will need to coordinate with CVFPB to be compliant with Title 23. (O. Magana - DWR UCIP) 09/24/2013 This pipe appears abandoned and if so, should be done so properly. (W. Wylie - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)].

FS Date: 3/12/2019 12:11:53 PM

## Photo 1 of 3: UCIP\_FA\_2019\_53786\_79145.jpg



Overview of levee crown looking d/s towards crossing.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

## Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	3.47	Rating **	М	Issue No.		988 (cont)
LM End	3.47	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP LMA Responsibility			37.5733	)4 °	37.573304°
				-121.1447	17°	-121.144747°
DWR ID	20572					

# Comment Code Inspector Comment

DS\_ID:20572 FS\_ID:53786 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 03/12/2019 No permit was found authorizing crossing. Unable to confirm if crossing is in use. Recommend adding cover to riser to address safety concern. No slide gate was found in CMP riser. If crossing is no longer in use, recommend proper abandonment or removal from levee. Owner will need to coordinate with CVFPB to be compliant with Title 23. (O. Magana - DWR UCIP) 09/24/2013 This pipe appears abandoned and if so, should be done so properly. (W. Wylie - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)].

FS Date: 3/12/2019 12:11:53 PM

LM Start	3.47	Rating **	М	Issue No.	988 (cont)
LM End	3.47	Issue Type +	Ma	Location *	



Overview of levee crown looking u/S towards crossing.

#### Photo 3 of 3: UCIP\_FA\_2019\_53786\_79144.jpg



LS view: overview of land use on LS.